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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/046,864
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Lin, Sun J.
Sheet	1	of	7	Attorney Docket Number	SPLX.P0052

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. ¹	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
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	20.	6,209,123	B1	03-27-2001	Maziasz et al.	

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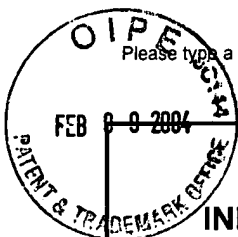
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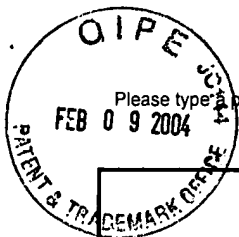
FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Cod (if known)				
	42.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	43.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	44.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	45.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	46.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	47.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English	✓

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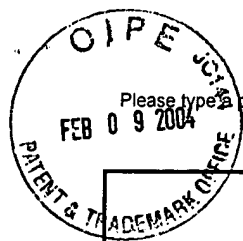
FOREIGN PATENT DOCUMENTS							
							translation of Abstract; and with English translation of the application.

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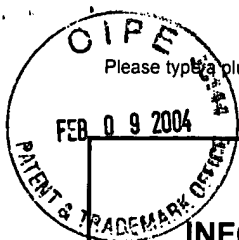
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NON PATENT LITERATURE DOCUMENTS				
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
	48.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.		
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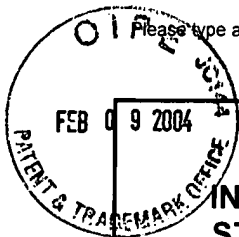
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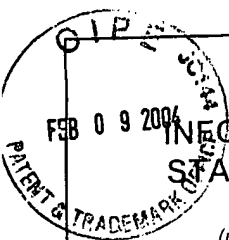
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number				10/046,864	
Filing Date				1/13/02	
First Named Inventor				Steven Teig	
Group Art Unit					
Examiner Name					
Attorney Docket Number				SPLX.P0052	
Sheet	1	of	1		

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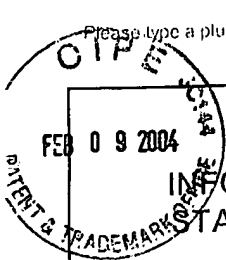

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
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Application Number 10/046,864 Filing Date 1/13/02 First Named Inventor Steven Teig Group Art Unit Examiner Name 				Sheet	2	of	2
				Attorney Docket Number SPLX.P0052			

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Application Number	10/046,864
Filing Date	1/13/02
First Named Inventor	Steven Teig
Group Art Unit	
Examiner Name	
Attorney Docket Number	SPLX.P0052

Sheet 3 of 3

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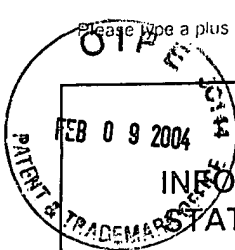
Examiner's Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
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				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	SPLX.P0052

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

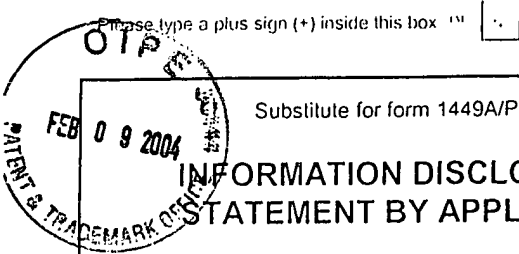
Examiner's Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
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			First Named Inventor	Steven Teig	
			Group Art Unit		
			Examiner Name		
Sheet	5	of	5	Attorney Docket Number	SPLX.P0052

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/046,864
Filing Date	1/13/02
First Named Inventor	Steven Teig
Group Art Unit	
Examiner Name	
Attorney Docket Number	SPLX.P0052

Sheet	1	of	1
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RELATED U.S. PATENT DOCUMENTS

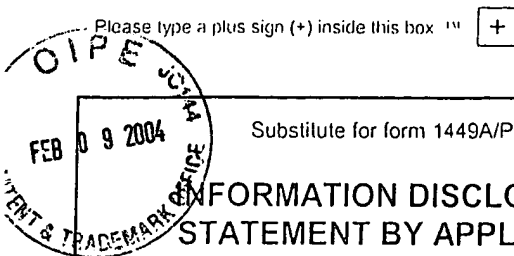
Examiner Initials	Cite No. ¹	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
	1.	2003/0079193	12/07/2001	Steven Teig et al.	Parent application; present application is a continuation of 2003/079193.
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	14.	2003/0066043	01/13/2002	Steven Teig et al.	Continuation of 2003/0088844 per preliminary amendment.

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Substitute for form 1449A/PTO				Application Number	10/046,864
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	SPLX.P0052

RELATED U.S. PATENT DOCUMENTS						
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	32.	2003/0088841		12/23/2002	Steven Teig et al.	Application regarding related placement technology.

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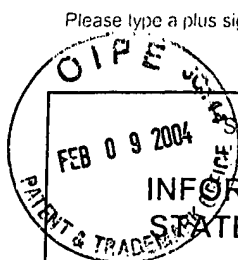
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Substitute for form 1449A/PTO				Application Number	10/046,864
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	SPLX.P0052

U.S. PATENT DOCUMENTS

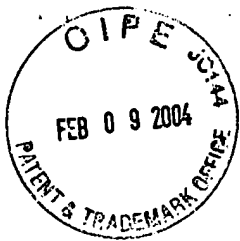
Examiner's Initials	Cite No. ¹	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
		Number				
	1.	2003/0101428 S/N 10/040,915		01-05-2002	Steven Teig et al.	Previously specified
	2.	2003/0043827 S/N 10/040,953		01-05-2002	Steven Teig et al.	Previously specified
	3.	2003/0023943 S/N 10/040,954		01-05-2002	Steven Teig et al.	Previously specified
	4.	2003/0066042 S/N 10/040,963		01-05-2002	Steven Teig et al.	Previously specified
	5.	2002/0174412 S/N 10/041,942		01-07-2002	Steven Teig et al.	Previously specified
	6.	2003/0088844 S/N 10/041,957		01-07-2002	Steven Teig et al.	Previously specified
	7.	2003/0056187 S/N 10/047,982		01-14-2002	Steven Teig et al.	Previously specified
	8.	2002/0073390 S/N 09/737,210		12-13-2000	Steven Teig et al.	Previously specified
	9.	2002/0124231 S/N 09/739,580		12-15-2000	Steven Teig et al.	Previously specified
	10.	2003/0121015 S/N 09/745,067		12-19-2000	Steven Teig et al.	Previously specified
	11.	2002/0166105 S/N 10/040,948		01-05-2002	Steven Teig et al.	Previously Specified
	12.	2003/0088841 S/N 10/329,241		12-23-2002	Steven Teig et al.	Previously specified
	13.	2003/0088845 S/N 10/047,978		01-13-2002	Steven Teig et al.	Continuation of the parent application (2003/0079193) of the present application.

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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number(optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Serial/Patent No.: 10/046,864
Filing Date: 1/13/02
Atty Docket: SPLX.P0052
Applicant(s): Steven Teig

Atty/Sec'y: MA/ka
Date Mailed: 9/26/2003

TITLE: Method and Apparatus for Pre-Computing Attributes of Routes

The following has been received by the U.S. Patent & Trademark Office on the date stamped hereon:

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2. Information Disclosure Statement (3 pages)
3. Form PTO-1449 (1 page)
4. (13) cited references





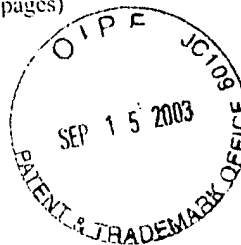
Serial/Patent No.: 10/046,864
Filing Date: 1/13/02
Atty Docket: SPLX.P0052
Applicant(s): Steven Teig

Atty/Sec'y: MA/ka
Date Mailed: 9/12/2003

TITLE: Method and Apparatus for Pre-Computing Attributes of Routes

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Serial/Patent No.: 10/046,864
Filing Date: 1/13/02
Atty Docket: SPLX.P0052
Applicant(s): Steven Teig

Atty/Secy: MA/sl
Date Mailed: 4/23/2003

TITLE: Method and Apparatus for Pre-Computing Attributes of Routes

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